

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCY United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,453	03/02/2004	Charles Russell Thomas	TPL-10203/03	3441
25006	7590 09/27/200		EXAMINER	
GIFFORD, KRASS, GROH, SPRINKLE			RICHTER, SHELDON J	
ANDERSON & CITKOWSKI, PC 280 N OLD WOODARD AVE			ART UNIT	PAPER NUMBER
SUITE 400			3748 DATE MAILED: 09/27/2004	
BIRMINGH	AM, MI 48009			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/791,453	THOMAS, CHARLES RUSSELL				
Office Action Summary	Examiner	Art Unit				
	Sheldon J Richter	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 8/30/	<u>04</u> .					
2a) This action is FINAL . 2b) ☑ This	action is non-final.	,				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 32-34,38-40,55 and 56 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 32-34,38-40,55 and 56 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal Pa					
Paper No(s)/Mail Date <u>8/2/04</u> .	6) Other:					

Art Unit: 3748

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 39 is rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Improper to depend from itself.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of

Application/Control Number: 10/791,453
Art Unit: 3748

section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 4. Claims 32 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Abe et al. Abe et al discloses a corona discharge device for an internal combustion engine having a corona discharge element in the intake system of an internal combustion engine.
- 5. Claim 32, 34, 38, 40 and 55-56 are rejected under 35
 U.S.C. 102(b) as being anticipated by Bolasny. Bolasny
 discloses an internal combustion engine having an engine housing
 (semicolon omitted in claim 55); a first and a second cylinder
 defined in the engine housing; an intake system operable to
 introduce a combustible mixture of air and fuel into the
 cylinders; a first piston disposed in the first cylinder
 operable to compress the combustible mixture in the first
 cylinder until the mixture autoignites without the introduction

Art Unit: 3748

of a spark; a second piston disposed in the second cylinder operable to compress the combustible mixture in the second cylinder until the mixture autoignites without the introduction of a spark; a first corona discharge device in the first cylinder; a second corona discharge device in the second cylinder; and a controller operable to control the first and second corona discharge devices.

6. Claims 32-34, 38 and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Motouchi '716. Motouchi '716 discloses an internal combustion engine with a corona discharge device having an engine housing; a combustion chamber defined in the housing; an intake system operable to introduce air into the combustion chamber; and a corona discharge device disposed in the intake system.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheldon J Richter whose telephone number is (703) 305-0475. The examiner can normally be reached on M-F 9:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be

Application/Control Number: 10/791,453

Art Unit: 3748

reached on (703) 308-2623. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheldon J Richter Primary Examiner Art Unit 3748 Page 5